

## Corrigendum: Osteoblast-derived vesicle protein content Is temporally regulated during osteogenesis:

Davies, Owen; Cox, Sophie; Azoidis, Ioannis; McGuinness, Adam; Cooke, Megan; Heaney, Liam M.; Davis, Edward; Jones, Simon; Grover, Liam

DOI:

[10.3389/fbioe.2019.00392](https://doi.org/10.3389/fbioe.2019.00392)

License:

Creative Commons: Attribution (CC BY)

*Document Version*

Publisher's PDF, also known as Version of record

*Citation for published version (Harvard):*

Davies, O, Cox, S, Azoidis, I, McGuinness, A, Cooke, M, Heaney, LM, Davis, E, Jones, S & Grover, L 2019, 'Corrigendum: Osteoblast-derived vesicle protein content Is temporally regulated during osteogenesis: implications for regenerative therapies', *Frontiers in Bioengineering and Biotechnology*, vol. 7, 392, pp. 1-2. <https://doi.org/10.3389/fbioe.2019.00392>

[Link to publication on Research at Birmingham portal](#)

### General rights

Unless a licence is specified above, all rights (including copyright and moral rights) in this document are retained by the authors and/or the copyright holders. The express permission of the copyright holder must be obtained for any use of this material other than for purposes permitted by law.

- Users may freely distribute the URL that is used to identify this publication.
- Users may download and/or print one copy of the publication from the University of Birmingham research portal for the purpose of private study or non-commercial research.
- User may use extracts from the document in line with the concept of 'fair dealing' under the Copyright, Designs and Patents Act 1988 (?)
- Users may not further distribute the material nor use it for the purposes of commercial gain.

Where a licence is displayed above, please note the terms and conditions of the licence govern your use of this document.

When citing, please reference the published version.

### Take down policy

While the University of Birmingham exercises care and attention in making items available there are rare occasions when an item has been uploaded in error or has been deemed to be commercially or otherwise sensitive.

If you believe that this is the case for this document, please contact [UBIRA@lists.bham.ac.uk](mailto:UBIRA@lists.bham.ac.uk) providing details and we will remove access to the work immediately and investigate.



# Corrigendum: Osteoblast-Derived Vesicle Protein Content Is Temporally Regulated During Osteogenesis: Implications for Regenerative Therapies

Owen G. Davies<sup>1\*</sup>, Sophie C. Cox<sup>2</sup>, Ioannis Azoidis<sup>2</sup>, Adam J. A. McGuinness<sup>3</sup>, Megan Cooke<sup>2,3</sup>, Liam M. Heaney<sup>1</sup>, Edward T. Davis<sup>4</sup>, Simon W. Jones<sup>5</sup> and Liam M. Grover<sup>2</sup>

<sup>1</sup> School of Sport, Exercise and Health Sciences, Loughborough University, Loughborough, United Kingdom, <sup>2</sup> School of Chemical Engineering, University of Birmingham, Birmingham, United Kingdom, <sup>3</sup> Physical Sciences for Health Doctoral Training Centre, University of Birmingham, Birmingham, United Kingdom, <sup>4</sup> Royal Orthopaedic Hospital, Birmingham, United Kingdom, <sup>5</sup> Institute of Inflammation and Ageing, University of Birmingham, Birmingham, United Kingdom

## OPEN ACCESS

### Edited and reviewed by:

Martijn van Griensven,  
Maastricht University, Netherlands

### \*Correspondence:

Owen G. Davies  
O.G.Davies@lboro.ac.uk

### Specialty section:

This article was submitted to  
Tissue Engineering and Regenerative  
Medicine,  
a section of the journal  
Frontiers in Bioengineering and  
Biotechnology

**Received:** 30 August 2019

**Accepted:** 20 November 2019

**Published:** 06 December 2019

### Citation:

Davies OG, Cox SC, Azoidis I,  
McGuinness AJA, Cooke M,  
Heaney LM, Davis ET, Jones SW and  
Grover LM (2019) Corrigendum:  
Osteoblast-Derived Vesicle Protein  
Content Is Temporally Regulated  
During Osteogenesis: Implications for  
Regenerative Therapies.  
Front. Bioeng. Biotechnol. 7:392.  
doi: 10.3389/fbioe.2019.00392

**Keywords:** vesicle, mineralization, annexin, collagen, osteoblast, nano

## A Corrigendum on

### Osteoblast-Derived Vesicle Protein Content Is Temporally Regulated During Osteogenesis: Implications for Regenerative Therapies

by Davies, O. G., Cox, S. C., Azoidis, I., McGuinness, A. J. A., Cooke, M., Heaney, L. M., et al. (2019). *Front. Bioeng. Biotechnol.* 7:92. doi: 10.3389/fbioe.2019.00092

“Edward T. Davis” and “Simon W. Jones” were not included as authors in the published article. The author list has been updated and the corrected **Author Contributions** statement appears below.

“OD conception of study. OD, SC, SJ, ED, and LG experimental design and manuscript preparation. OD, IA, AM, SJ, ED, and MC experimental work and data analysis. LH computational data analysis.”

Additionally, in the original article, there was a mistake in **Table 1** as published. Incorrect primers were included. The corrected **Table 1** appears below.

The authors apologize for these errors and state that it does not change the scientific conclusions of the article in any way. The original article has been updated.

Copyright © 2019 Davies, Cox, Azoidis, McGuinness, Cooke, Heaney, Davis, Jones and Grover. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

**TABLE 1 |** Primer sequences and accompanying gene accession numbers.

Gene	Forward	Reverse	Accession No.
ALP	CTTGGGCAGGCAGAGAGTA	AGTGGGAGGGTCAGGAGAT	NM_000478
BGLAP	GGCACCCCTTCTTCCTCTTC	TTCTGGAGTTTATTTGGGAGCA	NM_199173
BSP	GAGGTGATAGTGTTTATGGA	TGATGTCCTCGTCTGTAGCA	NM_00104005
COL1A1	AGACAGTGATTGAATACAAAACCA	GGAGTTTACAGGAAGCAGACA	NM_000088